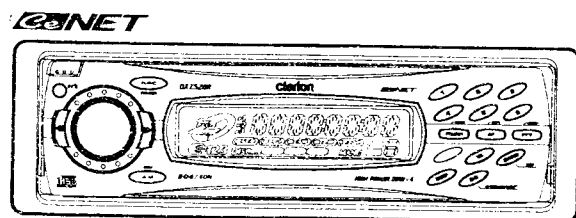


Service Manual



RDS-EON/FM/MW/LW Radio CD
Combination with DVD/MD/CD
Changer Control

Model **DXZ528R**
(PE-2469E)

SPECIFICATIONS

Radio section

Tuning system PLL synthesizer tuner
Receiving frequencies: FM 87.5 to 108MHz(0.05MHz steps)
MW 531 to 1602kHz(9kHz steps)
LW 153 to 279kHz(3kHz steps)

CD player section

System: Compact disc digital audio system
Frequency response: 10Hz to 20kHz(± 1 dB)
S/N ratio: 100dB(1kHz)
Dynamic range: 95dB(1kHz)
Distortion: 0.01%

General

Power output: 4X31W(DIN45324, +B=14.4V)
Power supply voltage: 14.4V DC(10.8 to 15.6V allowable)
negative ground
Current consumption: Less than 15A
Speaker impedance: 4 Ω (4 Ω to 8 Ω allowable)
Auto antenna rated current: 500mA or less
Dimensions(mm): 178(W)X50(H)X155(D)
Weight: 1.5kg

NOTE

- ※ We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
- ※ Use only CDs bearing the mark.
- ※ Do not play heart-shaped, octagonal, or other specially shaped CDs.
- ※ Some CDs recorded in CD-R/CD-RW mode may not be usable.
- ※ Specifications and design are subject to change without notice for further improvement.

COMPONENTS

PE-2469E-A

Main unit	-----	1
Mounting bracket	300-7742-00	1
DCP case	335-6035-20	1
Outer escutcheon	370-6009-00	1
Parts bag	-----	
Removal key	331-2497-00	2
Rubber spacer	345-3653-20	1
Screw(M5X8)	716-0726-01	1
A-lead	850-6681-50	1

To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as re-modeling for which we shall not be liable. The bonus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc., is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during

repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

8. Cautions in checking that the optical pickup lights up.

The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

9. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

9-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

9-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

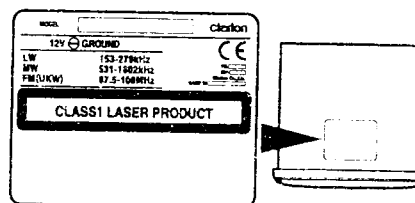
9-3. Cleaning the lens

Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

CAUTIONS

This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT". To use this model properly, read this Owner's Manual carefully and keep this manual for your future reference. In case of any trouble with this player, please contact your nearest "AUTHORIZED service station". To prevent direct exposure to the laser beam, do not try to open the enclosure.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED IN THE OWNER'S MANUAL MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.



NOTES OF ISO CONNECTOR

1. For VW and Audi vehicles, change the position of fuse installation as shown on the diagram. (Figure 1)

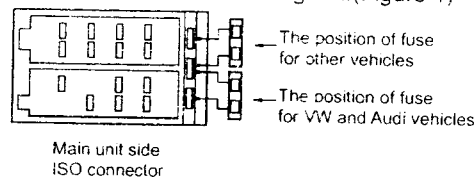


Figure 1

2. When the car stereo is installed in 1998 and later Volkswagen models, make sure to cut the car lead wire connected the A-5 terminal. (A breakdown could occur if the lead wire is not cut.) After cutting the lead wire, insulate the front end of the lead wire with insulation tape to prevent the risk of short-circuits. (Figure 2)

Note: Before cutting the lead wire, disconnect the car battery - (negative) cable.

3. When the Main unit is also connected to an external amplifier, connect REMOTE on the external amplifier to the previously cut lead wire on the side of the connector.

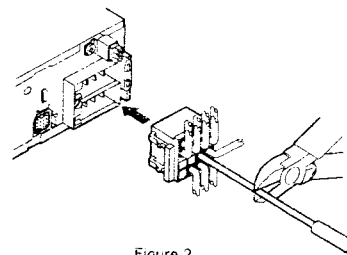


Figure 2

4. The lead include with the unit must be connected to the specified position of the vehicle's ISO connector in order to use the "triggered audio mute for cellular telephones" function. (Figure 3)

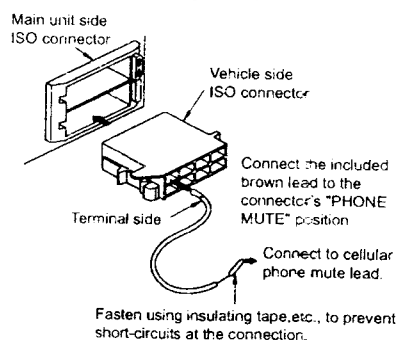
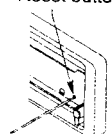


Figure 3

■ TROUBLESHOOTING

Problem	Cause	Measure
Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Remove the DCP and press the reset button for about 2 seconds with a thin rod. 

■ ERROR DISPLAYS

If an error occurs, one of the following displays is displayed.

Take the measure described below to eliminate the problem.

	Error display	Cause	Measure
CD	ERROR 2	A CD is caught inside the CD deck and is not ejected.	This is a failure of CD deck mechanism.
	ERROR 3	A CD cannot be played due to scratches etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	A CD is loaded upside-down inside the CD deck and does not play.	Eject the disc then reload it properly.
CD CHANGER	ERROR 2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism.
	ERROR 3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
MD CHANGER	ERROR H	Displayed when the temperature in the MD changer is too high and playback has been stopped automatically.	Lower the surrounding temperature and wait for a while to cool off MD changer.
	ERROR 2	An MD inside the MD changer is not loaded.	This is a failure of MD changer's mechanism.
	ERROR 3	An MD inside the MD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	An MD inside the MD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
		Displayed when a non-recorded MD is loaded in the MD changer.	Load a pre-recorded MD in the MD changer.

If an error display other than the ones described above appears press the reset button.

EXPLANATION OF IC

052-3377-00 M30624MGA-E37FP

System controller

1. Terminal Description

pin 1: NU	- : Not in use.	pin 48: CD RESET	: O : The reset pulse output to the CD IC.
pin 2: NU	- : Not in use.	pin 49: CCE	: O : The chip enable signal output.
pin 3: REMOCON	: IN : Remote controller signal input terminal	pin 50: BUC CLOCK	: O : CD IC clock pulse output.
pin 4: TIME BASE	: IN : Time base pulse input.	pin 51: BUS 3	: I/O : CD IC Data input / output.
pin 5: SBSY	: IN : Sub-Q data request pulse input from the CD IC.	pin 52: BUS 2	: I/O : CD IC Data input / output.
pin 6: RDS DATA	: IN : RDS serial data input.	pin 53: BUS 1	: I/O : CD IC Data input / output.
pin 7: RDS CLK	: IN : RDS clock pulse input.	pin 54: BUS 0	: I/O : CD IC Data input / output.
pin 8: BYTE	: IN : Connect to the ground.	pin 55: CD 5V	: O : Power supply control signal output for the CD IC / DAC IC "H"= ON.
pin 9: CN VSS	: IN : Connect to the ground.	pin 56: NU	- : Not in use.
pin 10: NU	- : Not in use.	pin 57: NU	- : Not in use.
pin 11: NU	- : Not in use.	pin 58: NU	- : Not in use.
pin 12: RESET	: IN : Reset signal input.	pin 59: NU	- : Not in use.
pin 13: X OUT	: O : Crystal connection.	pin 60: NU	- : Not in use.
pin 14: VSS	- : Negative supply voltage.	pin 61: NU	- : Not in use.
pin 15: X IN	: IN : Crystal connection.	pin 62: VDD	- : Positive supply voltage.
pin 16: VDD	- : Positive supply voltage.	pin 63: INIT	: IN : For PE-2469E = "H", For PE-2470E = "L"
pin 17: NU	- : Not in use.	pin 64: VSS	- : Negative supply voltage.
pin 18: ACC DET	: IN : ACC detection signal input.	pin 65: NU	- : Not in use.
pin 19: BU DET	: IN : Backup detection signal input.	pin 66: NU	- : Not in use.
pin 20: KEY INT	: IN : Key interrupting signal input	pin 67: LCD SO	: O : Serial data output to the LCD driver.
pin 21: 29pin connect	: IN : Connect to 29 pin	pin 68: LCD CE	: O : The chip enable signal output to the LCD driver
pin 22: NU	- : Not in use.	pin 69: VOL CW	: IN : Volume control pulse input from the rotary encoder.
pin 23: NU	- : Not in use.	pin 70: VOL CCW	: IN : Volume control pulse input from the rotary encoder.
pin 24: NU	- : Not in use.	pin 71: LCD SI	: IN : Serial data input from the LCD driver
pin 25: NU	- : Not in use.	pin 72: LCD CLK	: O : The clock pulse output to the LCD driver
pin 26: NU	- : Not in use.	pin 73: Back light ON	: O : Back light ON signal output
pin 27: RDS DIS CHG	: O : RDS dis-charge signal output	pin 74: AMP REM O	: O : ON signal output to the amplifier.
pin 28: RDS MUTE	: O : RDS mute signal output.	pin 75: AMP MUTE	: O : Muting signal output to the Audio Power Amplifier
pin 29: IE BUS RX	: IN : IE Bus serial data input.	pin 76: SYS MUTE	: O : System muting signal output.
pin 30: IE BUS TX	: O : IE Bus serial data output	pin 77: NU	- : Not in use.
pin 31: MUTE SPD UP	: O : Station detection speed up command output for RDS.	pin 78: Z MUTE CUT	: O : Command pulse output to cut the CD zero cross mute signal.
pin 32: RDS TEST ST	: O : Outputting "H" without the test mode.	pin 79: NU	- : Not in use.
pin 33: FM ST/SD	: IN : At receiving the FM station in the test mode, this port detects the stereo signal. And at seeking or scanning, this port detects the station detection signal.	pin 80: NU	- : Not in use.
pin 34: PLL CE	: O : The chip enable signal output to the PLL IC.	pin 81: VOL DATA	: O : The serial data output to the volume IC.
pin 35: PLL SO	: O : Serial data output to the PLL IC.	pin 82: VOL CLK	: O : The clock pulse output to the volume IC.
pin 36: PLL SI	: IN : Serial data input from the PLL IC.	pin 83: PHONE INT	: IN : The telephone interrupt signal input.
pin 37: PLL CLK	: O : The clock pulse output to the PLL IC.	pin 84: NU	- : Not in use.
pin 38: NU	- : Not in use.	pin 85: NU	- : Not in use.
pin 39: NU	- : Not in use.	pin 86: NU	- : Not in use.
pin 40: ILL DET	: IN : Illumination ON signal input.	pin 87: NU	- : Not in use.
pin 41: KEY ILL REM	: O : Key illumination ON signal output.	pin 88: NU	- : Not in use.
pin 42: LD MUTE	: O : Muting signal output to the CD mechanism.	pin 89: SYS ACC	: O : ACC detect signal output.
pin 43: LD CONT	: I/O : Communication line with the CD mechanism.	pin 90: 5V REM	: O : 5V power supply ON signal output.
pin 44: TR A	: IN : Photo sensor signal input from the CD mechanism.	pin 91: Power ON	: O : ON signal output to BA4905-V3.
pin 45: TR B	: IN : Photo sensor signal input from the CD mechanism.	pin 92: NU	- : Not in use.
pin 46: CHUCK SW	: IN : CD disc chucking signal input.	pin 93: NU	- : Not in use.
pin 47: S STOP	: IN : Inside limit signal input from the CD mechanism.	pin 94: S METER	: IN : The input terminal of internal A/D converter to monitor the radio field strength
		pin 95: NOISE 1	: IN : Input terminal of the internal ADC to sense the RDS-noise-level.
		pin 96: A VSS	- : Analog ground.
		pin 97: KEY AD	: IN : Input terminal of A/D converter for Key judgment
		pin 98: Vref	- : Reference voltage
		pin 99: A VDD	- : Positive supply voltage for the Analog section.
		pin100: NU	- : Not in use.

ADJUSTMENT

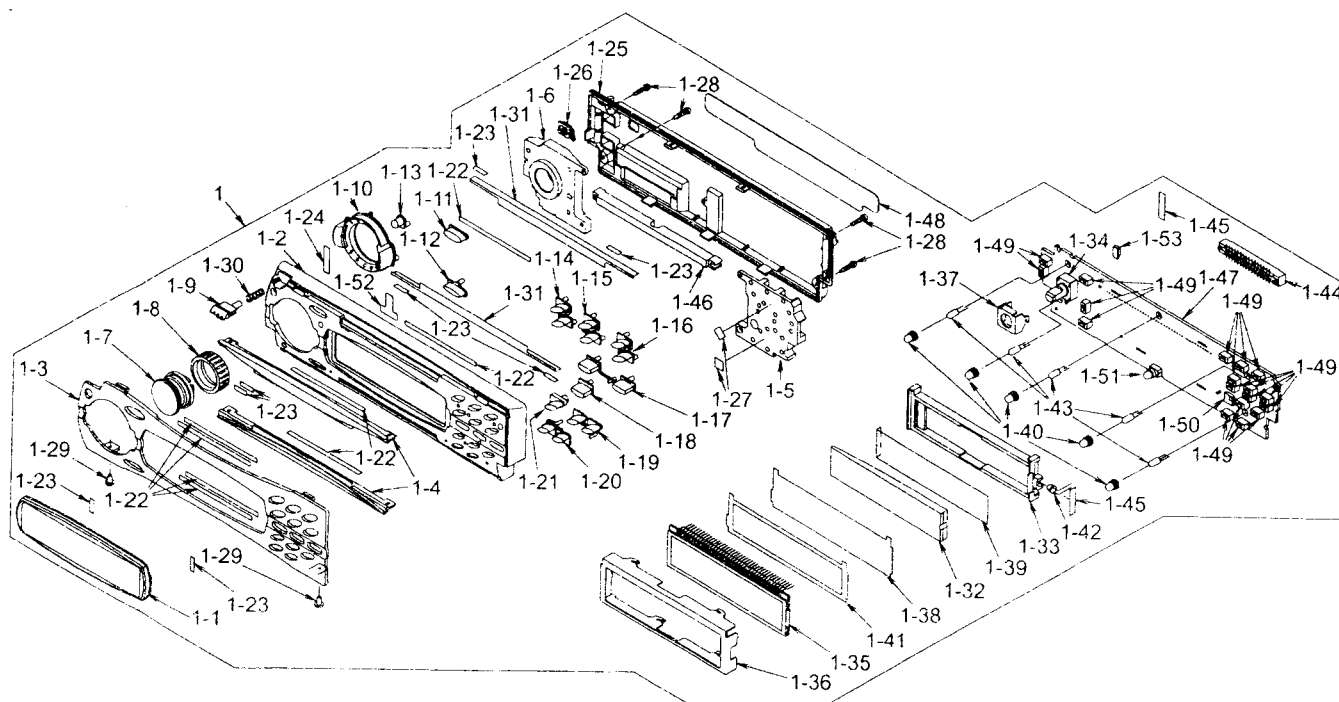
FM section

Item	Procedure	Measuring instrument
S-meter	<ol style="list-style-type: none"> 1. Input the 98.1MHz/30dBμ/400Hz(main90%+pilot10%)signal. 2. Turn on the power and press the CD PLAY button & PRESET No.6 button at the same time for about 2 seconds.(TEST MODE) 3. Adjust the reading of LCD display to [24---○○](24\pm2)by VR101. 4. Push the CD PLAY button & PRESET No.6 button at the same time for 2 seconds once again or do power off to cancel the TEST MODE. 	SG



EXPLODED VIEW · PARTS LIST

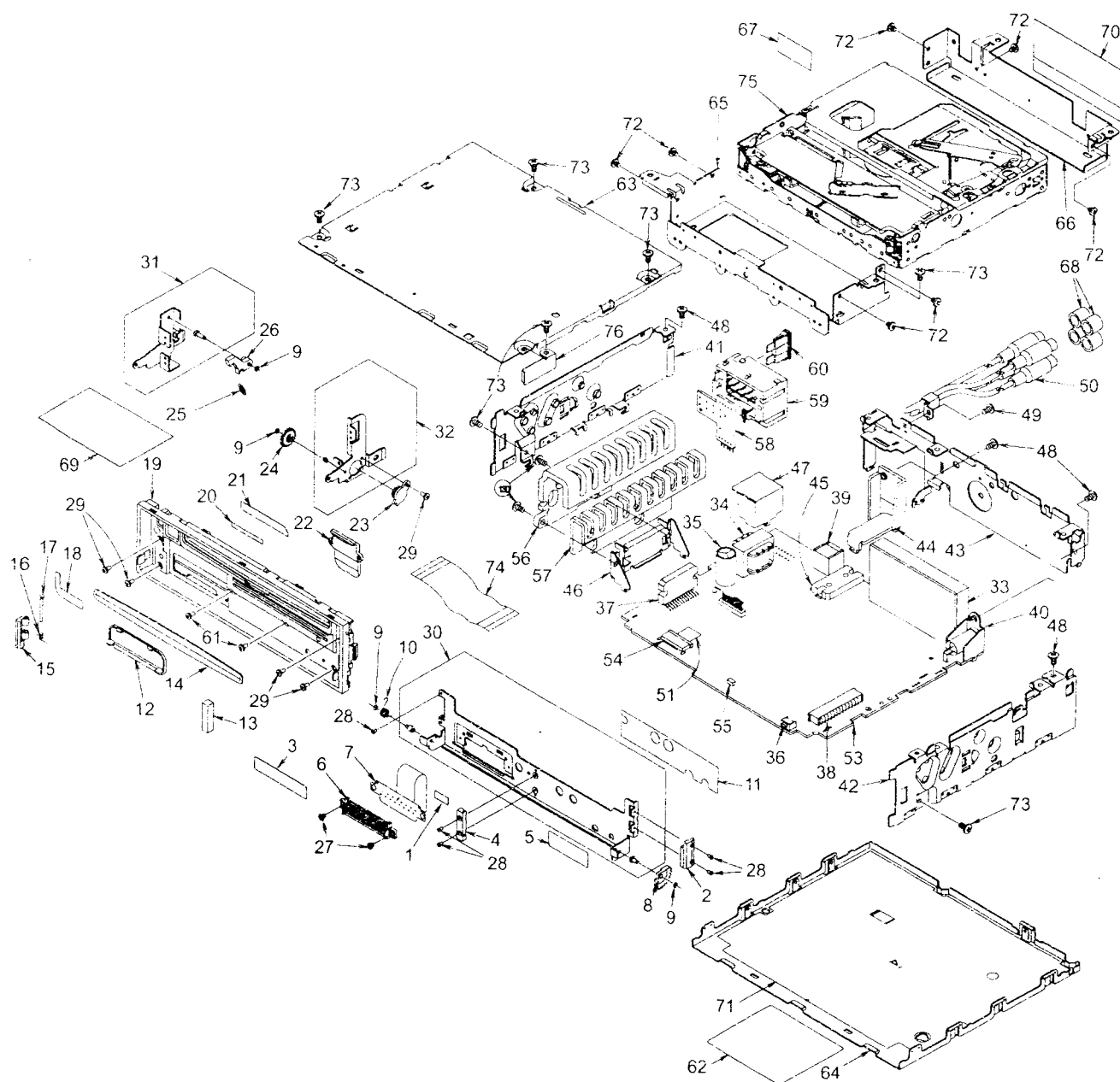
DCP section



NO.	PART NO.	DESCRIPTION	Q'TY
1	DCP-387-700	DCP ASSY	1
1-1	373-0985-00	DIAL COVER	1
1-2	370-5993-02	ESCUTCHEON	1
1-3	371-5711-00	FACE PANEL	1
1-4	335-6686-00	ILLUMI PLATE	2
1-5	335-6687-00	ILLUMI PLATE	1
1-6	335-6688-01	ILLUMI PLATE	1
1-7	380-5536-00	KNOB	1
1-8	345-8670-00	RUBBER(KNOB)	1
1-9	382-6403-00	BUTTON(OPEN)	1
1-10	382-6404-00	BUTTON(SRCH)	1
1-11	382-6405-00	BUTTON(FUNC)	1
1-12	382-6406-00	BUTTON(A/M)	1
1-13	382-6407-00	BUTTON(P/P)	1
1-14	382-6408-00	BUTTON(1/4)	1
1-15	382-6409-00	BUTTON(2/5)	1
1-16	382-6410-01	BUTTON(3/6)	1
1-17	382-6411-00	BUTTON(PS/AS)	1
1-18	382-6412-00	BUTTON(AF)	1
1-19	382-6435-00	BUTTON(BAND)	1
1-20	382-6436-00	BUTTON(DISP)	1
1-21	335-6689-00	IR-FILTER	1
1-22	347-6745-00	DOUBLE FACE	8
1-23	347-6695-00	DOUBLE FACE	8
1-24	347-6697-00	SHADE	1
1-25	335-6493-02	REAR COVER	1
1-26	382-6109-00	BUTTON(EJECT)	1
1-27	347-6696-00	FILM	2

NO.	PART NO.	DESCRIPTION	Q'TY
1-28	716-0872-12	PAD SCREW	4
1-29	714-2003-87	MACHINE SCREW(M2X3)	2
1-30	750-6721-00	SPRING	1
1-31	347-6744-00	FILM	2
1-32	335-6673-00	ILLUMI PLATE	1
1-33	335-6674-00	LCD HOLDER	1
1-34	016-9900-84	ROTARY ENCODER	1
1-35	379-1231-41	INDICATOR	1
1-36	331-3309-00	LCD COVER	1
1-37	331-3337-00	VR HOLDER	1
1-38	347-6692-00	FILM	1
1-39	347-6693-00	REFLECTOR	1
1-40	345-8681-00	LAMP CAP	5
1-41	347-6694-00	FILM	1
1-42	001-7046-00	LED	1
1-43	017-0444-00	PILOT LAMP(14V50mA)	5
1-44	076-0647-00	PLUG(16P)	1
1-45	347-6698-00	SHADE	2
1-46	335-6778-00	ILLUMI PLATE	1
1-47	039-2075-00	SWITCH PWB (WITHOUT COMPONENT)	1
1-48	347-6773-00	HEAT PROTECT	1
1-49	013-6305-50	TACT SWITCH	18
1-50	060-4008-00	IR RECEIVER	1
1-51	017-0433-62	PILOT LAMP(14V40mA)	1
1-52	347-6704-00	SURGE FILM	1
1-53	013-6511-50	LUMI SWITCH	1

Main section



NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	347-6356-00	DOUBLE FACE	1	18	347-6483-00	HEAT PROTECT	1
2	335-6500-01	HOOK	1	19	370-5766-07	INNER ESCUTCHEON	1
3	347-6523-00	FPC SUPPORT	1	20	347-5923-00	DOUBLE FACE	1
4	335-6502-00	SLIDER	1	21	347-5920-00	COVER FILM	1
5	291-0092-00	STICKER	1	22	335-5817-00	ILLUMI PLATE	1
6	074-1278-00	OUTLET SOCKET(16P)	1	23	613-0687-00	GEAR DAMPER	1
7	039-1862-00	FLEXIBLE PWB	1	24	613-0683-00	GEAR	1
8	613-0684-00	FAN GEAR	1	25	750-3341-00	SPRING	1
9	746-0761-00	WASHER	3	26	335-6498-00	HOOK LOCK	1
10	750-3342-21	SPRING	1	27	716-3444-00	SCREW	2
11	290-7995-00	LABEL	1	28	738-1722-17	PRECISION SCREW	5
12	335-6499-00	CONNECTOR COVER	1	29	780-2004-01	SCREW	5
13	345-8607-00	CUSHION	1	30	946-0078-02	HOLDER ASSY	1
14	346-0114-01	LEATHER SHEET	1	31	946-0071-01	ARM L ASSY	1
15	335-6501-01	HOOK DCP	1	32	946-0072-01	ARM R ASSY	1
16	750-3454-00	SPRING	1	33	880-2089C	TUNER	1
17	341-1764-00	SHAFT	1	34	009-9006-60	CHOKE	1

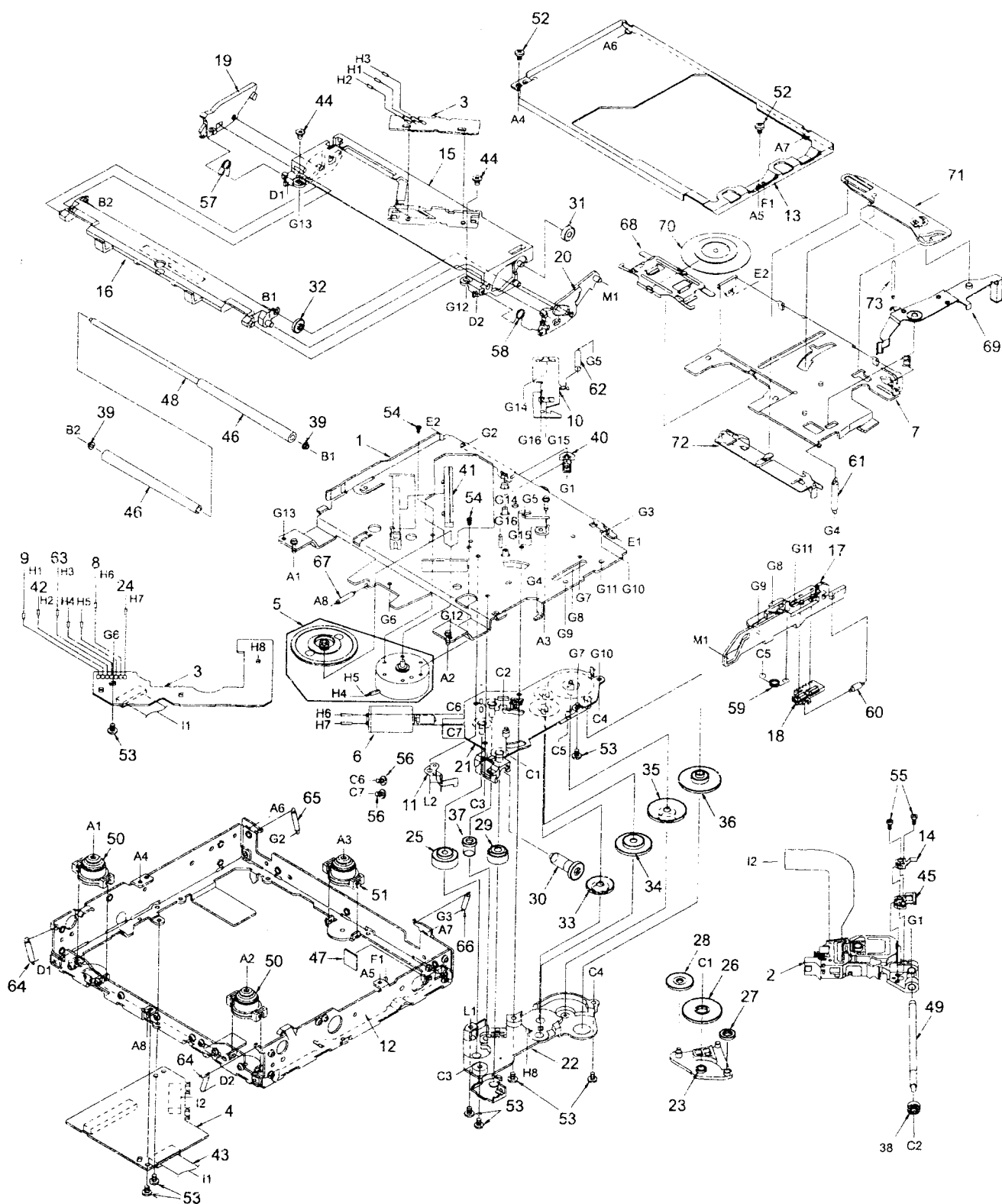
NO.	PART NO.	DESCRIPTION	Q'TY
35	042-0447-00	ELE-C(16V2200uF)	1
36	013-6100-00	SWITCH	1
37	051-2041-00	IC(LA47503)	1
38	074-1138-76	OUTLET SOCKET(26P)	1
39	074-1194-00	OUTLET SOCKET(13P)	1
40	092-4000-51	ANT RECEPTACLE	1
41	305-0274-31	SIDE COVER(L)	1
42	305-0275-30	SIDE COVER(R)	1
43	307-0628-01	REAR COVER	1
44	313-1846-00	HEAT SINK	1
45	051-3297-10	IC(BA4916)	1
46	331-2255-20	IC HOLDER	1
47	331-2820-00	SHIELD CASE	1
48	714-3006-81	MACHINE SCREW(M3X6)	4
49	731-3006-80	TAPTIGHT(M3X6)	1
50	855-5428-50	RCA PIN CORD	1
51	347-6215-00	SPACER FILM	1
52	731-3008-89	TAPTIGHT	2
53	039-2073-01	MAIN PWB (WITHOUT COMPONENT)	1
54	074-1198-68	OUTLET SOCKET(18P)	1
55	001-7062-90	LED	1
56	313-1817-00	HEAT SINK	1

NO.	PART NO.	DESCRIPTION	Q'TY
57	313-1818-00	HEAT SINK	1
58	039-1400-30	ISO PWB (WITHOUT COMPONENT)	1
59	074-1285-00	OUTLET SOCKET(ISO)	1
60	060-0057-57	AUTO FUSE(15A)	1
61	780-2004-01	SCREW	2
62	286-9925-00	SETPLATE	1
63	303-0472-04	UPPER COVER	1
64	304-0460-01	LOWER COVER	1
65	331-3323-00	CD-SUB-BRKT(F)	1
66	331-3324-00	CD-SUB-BRKT(R)	1
67	347-6766-00	INSULATOR	1
68	345-3799-20	RUBBER CAP	4
69	347-6729-00	INSULATOR	1
70	347-6705-00	INSULATOR	1
71	347-5918-00	INSULATOR	1
72	714-2603-80	MACHINE SCREW(M2.6X3)	7
73	731-3006-80	TAPTIGHT(M3X6)	7
74	816-2569-50	FLAT WIRE(26P)	1
75	929-0220-83	CD MECHANISM	1
76	331-2744-00	STOPPER	1
77	743-1500-10	E-RING	1

CD mechanism section

NO.	PART NO.	DESCRIPTION	Q'TY
1	966-0595-25	DRIVE PLATE ASSY	1
2	969-0060-30	PICK UP UNIT	1
3	039-1944-21	LED PWB (WITHOUT COMPONENT)	1
4	039-1945-20	CD PWB (WITHOUT COMPONENT)	1
5	SMA-182-100	MOTOR ASSY(SPINDLE)	1
6	SMA-183-100	MOTOR ASSY(SLED)	1
7	620-1024-22	CLAMPER LINK	1
8	803-4906-60	VINYL COAT WIRE(ORG)	1
9	816-2591-00	LEAD WIRE(YEL)	1
10	620-1025-22	ID-LOCK PLATE	1
11	620-1026-21	SPRING PLATE	1
12	620-1027-25	LOWER CHASSIS	1
13	620-1028-22	UPPER CHASSIS	1
14	966-0638-20	SH-RACK ASSY	1
15	621-0598-26	UPPER GUIDE	1
16	621-0599-25	ROLLER GUIDE	1
17	621-0600-25	SHIFT LEVER	1
18	621-0601-21	RACK	1
19	621-0602-22	LOCK ARM L	1
20	621-0603-25	LOCK ARM R	1
21	621-0604-22	GEAR BASE	1
22	621-0605-22	GEAR COVER	1
23	621-0606-21	IDLE CASE	1
24	816-2590-00	VINYL COAT WIRE(GRN)	1
25	621-0608-21	SECOND GEAR	1
26	621-0609-20	BASE GEAR	1

NO.	PART NO.	DESCRIPTION	Q'TY
27	621-0610-20	IDLE GEAR A	1
28	621-0611-20	IDLE GEAR B	1
29	621-0612-21	ROLLER GEAR A	1
30	621-0613-20	ROLLER GEAR B	1
31	621-0614-20	ROLLER GEAR C	1
32	621-0615-21	ROLLER GEAR D	1
33	621-0616-20	POWER GEAR A	1
34	621-0617-20	POWER GEAR B	1
35	621-0618-20	POWER GEAR C	1
36	621-0619-20	POWER GEAR D	1
37	621-0620-20	THREAD GEAR A	1
38	621-0621-20	THREAD GEAR B	1
39	621-0622-21	ROLLER SLEEVE	2
40	621-0623-21	LS-HOLDER	1
41	621-0624-22	GUIDE RAIL	1
42	816-2593-00	LEAD WIRE(PUR)	1
43	816-2542-01	FLAT WIRE(10P)	1
44	716-3473-00	SCREW	2
45	621-0709-20	SH-BASE	1
46	621-0629-20	LOADING ROLLER	2
47	345-8704-20	CUSHION RUBBER	1
48	622-1571-21	ROLLER SHAFT	1
49	624-0018-01	LEAD SCREW	1
50	629-0081-20	DAMPER F	2
51	629-0082-20	DAMPER R	1
52	714-2003-81	MACHINE SCREW	2
53	716-1507-00	SCREW	9



NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
54	716-1733-00	SCREW	2	64	750-3472-21	DR-SPRING F	2
55	716-3469-00	SPECIAL SCREW	2	65	750-3473-20	DR-SPRING RA	1
56	716-3446-00	SCREW	2	66	750-3474-20	DR-SPRING RB	1
57	750-3465-21	ROLLER SPRING L	1	67	750-3475-21	DR-SPRING C	1
58	750-3466-20	ROLLER SPRING R	1	68	620-1023-23	CLAMPER PLATE	1
59	750-3467-21	SHIFT SPRING	1	69	620-1024-23	SENSOR APM	1
60	750-3468-20	RACK SPRING	1	70	621-0708-20	CLAMPER RING	1
61	750-3469-20	CLAMPER SPRING	1	71	621-0626-20	STOPPER LINK	1
62	750-3470-20	ID-LOCK SPRING	1	72	621-0627-21	DISC STOPPER	1
63	816-2592-00	LEAD WIRE(BLU)	1	73	750-3471-20	SENSOR SPRING	1

ELECTRICAL PARTS LIST

Main PWB(B1) section

Note) Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
BL1	880-2089C	FM/MMW/LW TUNER	C514	182-1063-37	16V10 μ F	IC101	051-2041-00	LA47503
C1	166-2096-50	2pF CK	C515	182-4763-39	16V47 μ F	IC102	051-3297-10	BA4916-V2
C2	166-2201-50	22pF CH	C516	168-1045-56	0.1 μ F	IC501	051-5028-90	TDA7409DTR
C3	166-2201-50	22pF CH	C517	168-4722-55	4700pF	IC502	051-0350-93	NJM4558M
C4	168-1032-55	0.01 μ F	C518	168-4722-55	4700pF	IC503	051-0556-93	NJM2058M
C5	168-1032-55	0.01 μ F	C519	182-1053-67	50V1 μ F	IC505	051-5437-08	S-80821ANMP-EDJ-E2
C6	168-2232-55	0.022 μ F	C520	182-1053-67	50V1 μ F	IC601	052-3377-00	M30624MGA-E37FP
C7	168-2232-55	0.022 μ F	C534	166-1011-50	100pF CH	IC602	051-6600-38	CA0008AM
C8	182-4753-57	35V4.7 μ F	C535	166-1011-50	100pF CH	IC801	051-0350-93	NJM4558M
C9	168-1032-55	0.01 μ F	C536	166-1011-50	100pF CH	IC802	051-4607-90	SAA6581T
C10	168-1022-55	1000pF	C537	166-1011-50	100pF CH	J601	074-1194-00	13P CE-NET
C11	182-1053-67	50V1 μ F	C612	168-4732-78	0.047 μ F	J602	074-1198-68	18P
C12	168-2232-55	0.022 μ F	C614	168-1032-55	0.01 μ F	J603	074-1138-76	26P
C13	168-1832-55	0.018 μ F	C615	182-1073-17	6.3V100 μ F	J900	074-1278-00	16P
C14	168-1832-55	0.018 μ F	C616	182-1063-37	16V10 μ F	L1	010-2003-04	COIL
C17	182-4763-39	16V47 μ F	C617	182-2263-37	16V22 μ F	L2	010-2230-38	220 μ H
C18	168-2232-55	0.022 μ F	C618	166-1011-50	100pF CH	L601	010-3100-66	2.2uH
C19	168-2232-55	0.022 μ F	C619	166-1011-50	100pF CH	L602	010-3100-66	2.2uH
C20	168-6822-55	6800pF	C620	166-1011-50	100pF CH	L603	010-3100-66	2.2uH
C21	182-1073-25	10V100 μ F	C621	166-1011-50	100pF CH	L604	010-3100-66	2.2uH
C22	182-4763-39	16V47 μ F	C622	166-1011-50	100pF CH	L605	010-3100-66	2.2uH
C23	168-1222-55	1200pF	C623	166-1011-50	100pF CH	Q1	193-1306-00	2SD1306
C24	168-1045-56	0.1 μ F	C624	166-1011-50	100pF CH	Q2	125-0002-93	RN2403
C25	182-1053-67	50V1 μ F	C625	166-1011-50	100pF CH	Q3	125-2004-93	RN1403
C26	168-8222-55	8200pF	C626	168-1022-55	1000pF	Q4	190-1162-00	2SA1162
C27	182-4763-19	6.3V47 μ F	C627	168-1022-55	1000pF	Q5	190-1162-00	2SA1162
C28	168-1032-55	0.01 μ F	C628	166-1011-50	100pF CH	Q6	198-0669-00	2SK669
C29	166-1011-50	100pF CH	C629	166-1011-50	100pF CH	Q210	125-0013-97	RN2427
C30	166-1011-50	100pF CH	C630	166-1011-50	100pF CH	Q211	125-2004-96	RN1406
C31	168-3312-55	330pF	C631	166-1011-50	100pF CH	Q227	193-1802-61	2SD1802FA
C32	166-1501-50	15pF CH	C632	168-1022-55	1000pF	Q228	193-1858-50	2SD1858Q.R
C33	166-1801-50	18pF CH	C633	166-1011-50	100pF CH	Q452	193-1306-00	2SD1306
C102	178-2242-78	0.22 μ F	C636	166-1011-50	100pF CH	Q453	193-1306-00	2SD1306
C103	178-2242-78	0.22 μ F	C801	168-2232-55	0.022 μ F	Q454	193-1306-00	2SD1306
C104	178-2242-78	0.22 μ F	C802	168-8212-55	820pF	Q455	193-1306-00	2SD1306
C105	178-2242-78	0.22 μ F	C803	168-6812-55	680pF	Q501	125-2004-96	RN1406
C106	182-4763-39	16V47 μ F	C804	168-1032-55	0.01 μ F	Q502	125-0002-96	RN2406
C107	182-2263-37	16V22 μ F	C805	168-2232-55	0.022 μ F	Q503	192-2712-00	2SC2712
C108	172-2231-15	0.022 μ F	C806	182-2253-67	50V2.2 μ F	Q505	191-1237-00	2SB1237
C109	182-2253-67	50V2.2 μ F	C807	168-3312-55	330pF	Q506	125-2004-96	RN1406
C110	172-3331-15	0.033 μ F	C808	166-4701-50	47pF CH	Q507	125-2004-93	RN1403
C111	172-3331-15	0.033 μ F	C809	166-5601-50	56pF CH	Q508	125-0002-96	RN2406
C112	172-3331-15	0.033 μ F	C810	168-5612-55	560pF	Q509	125-2030-90	RN1410
C113	172-3331-15	0.033 μ F	C811	182-4763-19	6.3V47 μ F	Q602	125-2004-93	RN1403
C114	183-4743-67	50V0.47 μ F	C812	168-1045-56	0.1 μ F	Q603	190-1162-00	2SA1162
C115	183-4743-67	50V0.47 μ F	D102	001-0466-90	S5688B	Q604	190-1162-00	2SA1162
C210	182-2263-17	6.3V22 μ F	D103	001-0466-90	S5688B	Q606	125-2004-93	RN1403
C214	042-0447-00	16V2200 μ F	D104	001-0466-90	S5688B	Q607	190-1298-00	2SA1298
C222	182-4763-39	16V47 μ F	D105	001-0466-90	S5688B	Q608	125-2004-93	RN1403
C223	172-2231-15	0.022 μ F	D106	001-0466-90	S5688B	Q609	190-1298-00	2SA1298
C224	182-2263-37	16V22 μ F	D107	001-0466-90	S5688B	Q610	125-2004-93	RN1403
C225	182-1073-39	16V100 μ F	D108	001-0466-90	S5688B	Q611	190-1162-00	2SA1162
C227	182-1063-37	16V10 μ F	D109	001-0466-90	S5688B	Q612	192-2712-00	2SC2712
C228	182-4763-39	16V47 μ F	D110	001-0347-41	MA4075M	Q801	125-2004-92	RN1402
C229	182-1063-37	16V10 μ F	D202	001-0516-90	MA111	R3	119-2221-15	1/16W 2.2k Ω
C230	173-1021-19	1000pF J	D203	001-0592-00	RM4Z	R4	119-1021-15	1/16W 1k Ω
C243	182-1073-25	10V100 μ F	D204	001-0466-90	S5688B	R5	119-3311-15	1/16W 330 Ω
C244	182-1073-17	6.3V100 μ F	D205	001-0466-90	S5688B	R6	119-4721-15	1/16W 4.7k Ω
C458	182-2263-17	6.3V22 μ F	D221	001-0516-90	MA111	R7	119-5621-15	1/16W 5.6k Ω
C459	182-2263-17	6.3V22 μ F	D225	001-0466-91	S5688G	R8	119-1021-15	1/16W 1k Ω
C460	182-2263-17	6.3V22 μ F	D501	001-0516-90	MA111	R9	119-1031-15	1/16W 10k Ω
C461	182-2263-17	6.3V22 μ F	D502	001-0516-90	MA111	R10	116-3311-15	1/8W 330 Ω
C500	182-1053-67	50V1 μ F	D503	001-0347-23	MA4043M	R11	119-1031-15	1/16W 10k Ω
C501	182-1053-67	50V1 μ F	D601	001-7062-90	RBR111C	R12	119-2221-15	1/16W 2.2k Ω
C502	182-1053-67	50V1 μ F	D603	001-0516-90	MA111	R13	119-5631-15	1/16W 56k Ω
C503	182-1053-67	50V1 μ F	D606	001-0516-90	MA111	R14	119-1031-15	1/16W 10k Ω
C504	182-1063-37	16V10 μ F	D610	001-0516-90	MA111	R15	119-1031-15	1/16W 10k Ω
C505	182-1063-37	16V10 μ F	D611	001-0516-90	MA111	R16	119-1231-15	1/16W 12k Ω
C506	182-1063-37	16V10 μ F	D801	001-0516-90	MA111	R17	119-5631-15	1/16W 56k Ω
C507	182-1063-37	16V10 μ F	D802	001-0516-90	MA111	R18	119-1521-15	1/16W 1.5k Ω
C512	182-4763-19	6.3V47 μ F	IC1	051-6201-90	LC72146M			

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R19	119-1521-15	1/16W 1.5kΩ	R508	032-0140-51	1/16W 15kΩ 1%	R628	116-1521-15	1/8W 1.5kΩ
R20	119-1021-15	1/16W 1kΩ	R509	119-3311-15	1/16W 330Ω	R630	119-0000-05	1/16W 0Ω JW
R21	119-2711-15	1/16W 270Ω	R537	119-8221-15	1/16W 8.2kΩ	R634	119-1031-15	1/16W 10kΩ
R22	119-1041-15	1/16W 100kΩ	R538	119-3321-15	1/16W 3.3kΩ	R635	119-3321-15	1/16W 3.3kΩ
R23	119-1031-15	1/16W 10kΩ	R540	119-2231-15	1/16W 22kΩ	R640	119-0000-05	1/16W 0Ω JW
R24	119-1021-15	1/16W 1kΩ	R541	119-1021-15	1/16W 1kΩ	R642	119-1031-15	1/16W 10kΩ
R25	119-1021-15	1/16W 1kΩ	R542	119-3311-15	1/16W 330Ω	R643	119-5621-15	1/16W 5.6kΩ
R26	119-8211-15	1/16W 820Ω	R551	119-4721-15	1/16W 4.7kΩ	R652	119-1811-15	1/16W 180Ω
R101	119-1231-15	1/16W 12kΩ	R553	119-4721-15	1/16W 4.7kΩ	R653	119-1811-15	1/16W 180Ω
R102	119-1031-15	1/16W 10kΩ	R554	119-1031-15	1/16W 10kΩ	R654	119-1811-15	1/16W 180Ω
R105	119-1021-15	1/16W 1kΩ	R557	119-1031-15	1/16W 10kΩ	R655	119-1041-15	1/16W 100kΩ
R204	119-3321-15	1/16W 3.3kΩ	R558	119-1031-15	1/16W 10kΩ	R657	119-1811-15	1/16W 180Ω
R205	119-1831-15	1/16W 18kΩ	R559	119-1031-15	1/16W 10kΩ	R658	119-1521-15	1/16W 1.5kΩ
R207	119-1231-15	1/16W 12kΩ	R560	119-1031-15	1/16W 10kΩ	R659	119-4731-15	1/16W 47kΩ
R208	119-1011-15	1/16W 100Ω	R561	119-1031-15	1/16W 10kΩ	R660	119-1531-15	1/16W 15kΩ
R209	119-3311-15	1/16W 330Ω	R562	119-1031-15	1/16W 10kΩ	R661	119-4731-15	1/16W 47kΩ
R210	119-1031-15	1/16W 10kΩ	R565	119-1031-15	1/16W 10kΩ	R662	119-2221-15	1/16W 2.2kΩ
R211	119-1541-15	1/16W 150kΩ	R601	119-2221-15	1/16W 2.2kΩ	R663	119-1031-15	1/16W 10kΩ
R252	116-1521-15	1/8W 1.5kΩ	R602	119-2221-15	1/16W 2.2kΩ	R664	119-2221-15	1/16W 2.2kΩ
R470	119-4721-15	1/16W 4.7kΩ	R603	116-6801-15	1/8W 68Ω	R690	119-4721-15	1/16W 4.7kΩ
R471	119-4721-15	1/16W 4.7kΩ	R604	119-3321-15	1/16W 3.3kΩ	R691	119-4721-15	1/16W 4.7kΩ
R472	119-4721-15	1/16W 4.7kΩ	R607	119-2231-15	1/16W 22kΩ	R801	119-3331-15	1/16W 33kΩ
R473	119-4721-15	1/16W 4.7kΩ	R608	119-1031-15	1/16W 10kΩ	R802	119-1031-15	1/16W 10kΩ
R476	119-3311-15	1/16W 330Ω	R609	119-4731-15	1/16W 47kΩ	R803	119-1041-15	1/16W 100kΩ
R477	119-3311-15	1/16W 330Ω	R610	119-4721-15	1/16W 4.7kΩ	R804	119-2211-15	1/16W 220Ω
R478	119-3311-15	1/16W 330Ω	R611	119-1041-15	1/16W 100kΩ	R805	119-1231-15	1/16W 12kΩ
R479	119-3311-15	1/16W 330Ω	R612	119-1041-15	1/16W 100kΩ	R806	119-3321-15	1/16W 3.3kΩ
R481	119-1021-15	1/16W 1kΩ	R613	119-4731-15	1/16W 47kΩ	S601	013-6100-00	SKHLLB
R482	119-1021-15	1/16W 1kΩ	R614	119-4731-15	1/16W 47kΩ	SUP1	060-0122-91	DSP-141N-S00B
R501	032-0140-58	1/16W 51kΩ 1%	R615	119-1031-15	1/16W 10kΩ	T101	009-9006-60	0.23mH
R502	032-0140-58	1/16W 51kΩ 1%	R616	119-4711-15	1/16W 470Ω	VR101	012-6009-65	470kΩ
R503	032-0140-58	1/16W 51kΩ 1%	R619	119-3311-15	1/16W 330Ω	X1	061-1066-00	7.2MHz
R504	032-0140-58	1/16W 51kΩ 1%	R620	119-1031-15	1/16W 10kΩ	X601	060-1505-50	10MHz
R505	032-0140-51	1/16W 15kΩ 1%	R621	116-1221-15	1/8W 1.2kΩ	X801	061-3013-00	4.33MHz
R506	032-0140-51	1/16W 15kΩ 1%	R623	119-1521-15	1/16W 1.5kΩ			
R507	032-0140-51	1/16W 15kΩ 1%	R627	119-1031-15	1/16W 10kΩ			

Switch PWB(B2) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C701	168-1022-55	1000pF	PL705	017-0444-00	14V50mA	S702	013-6305-50	SKQMAH
C702	168-4732-78	0.047 μF	PL706	017-0433-62	14V40mA	S703	013-6305-50	SKQMAH
C703	168-4732-78	0.047 μF	Q701	190-1162-00	2SA1162	S704	013-6305-50	SKQMAH
C704	042-0416-52	10V10 μF TAN	Q702	125-2004-93	RN1403	S705	013-6305-50	SKQMAH
C705	042-0416-52	10V10 μF TAN	Q703	125-2004-93	RN1403	S706	013-6305-50	SKQMAH
D701	001-7046-00	NSPW310BS	R701	119-4731-15	1/16W 47kΩ	S707	013-6305-50	SKQMAH
D703	001-0529-14	MA8030-L	R702	119-1031-15	1/16W 10kΩ	S708	013-6305-50	SKQMAH
D704	001-0529-29	MA8051-M	R703	119-1011-15	1/16W 100Ω	S709	013-6305-50	SKQMAH
D706	001-0529-41	MA8075-M	R704	119-1021-15	1/16W 1kΩ	S710	013-6305-50	SKQMAH
D707	001-0529-41	MA8075-M	R705	119-1011-15	1/16W 100Ω	S711	013-6305-50	SKQMAH
D708	001-0529-41	MA8075-M	R706	119-2711-15	1/16W 270Ω	S712	013-6305-50	SKQMAH
D709	001-0529-41	MA8075-M	R707	119-2211-15	1/16W 220Ω	S713	013-6305-50	SKQMAH
IC701	051-6013-00	LC75854W	R708	119-8211-15	1/16W 820Ω	S714	013-6305-50	SKQMAH
IR701	060-4008-00	RS171	R709	119-1041-15	1/16W 100kΩ	S715	013-6305-50	SKQMAH
LCD701	379-1231-41	LCD	R710	119-3921-15	1/16W 3.9kΩ	S716	013-6305-50	SKQMAH
P701	076-0647-00	16P	R711	119-2211-15	1/16W 220Ω	S717	013-6305-50	SKQMAH
PL701	017-0444-00	14V50mA	R712	119-2221-15	1/16W 2.2kΩ	S718	013-6305-50	SKQMAH
PL702	017-0444-00	14V50mA	R714	119-2221-15	1/16W 2.2kΩ	S721	013-6511-50	LS9J2M-1SR
PL703	017-0444-00	14V50mA	R715	119-3311-15	1/16W 330Ω	VR720	016-9900-84	VR W/SHAFT
PL704	017-0444-00	14V50mA	S701	013-6305-50	SKQMAH			

ISO PWB(B3) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
J950	074-1285-00	ISO	FUSE	060-0057-57	15A

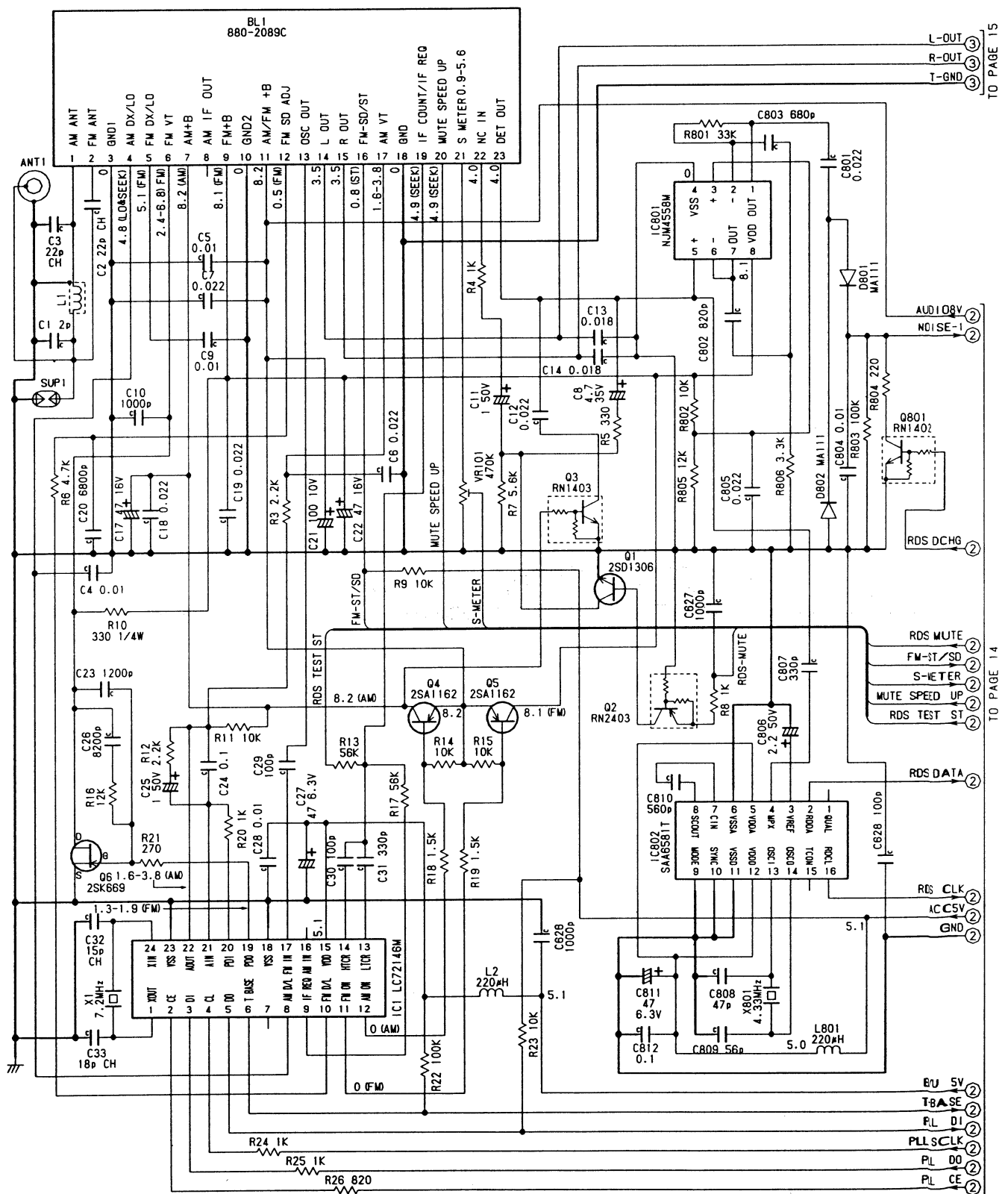
CD PWB(B4) section : CD mechanism

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C101	168-1042-78	0.1 μF	C107	046-1032-78	0.01 μF	C113	168-1042-78	0.1 μF
C102	045-4701-50	47pF	C108	046-4722-58	4700pF	C114	168-1042-78	0.1 μF
C103	046-4722-58	4700pF	C109	046-1522-58	1500pF	C115	046-4712-58	470pF
C104	168-1042-78	0.1 μF	C110	046-3332-78	0.033 μF	C116	046-4712-58	470pF
C105	046-1532-78	0.015 μF	C111	168-1042-78	0.1 μF	C117	043-0533-50	0.047 μF
C106	046-1032-78	0.01 μF	C112	046-3332-78	0.033 μF	C118	043-0533-50	0.047 μF

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C119	045-2701-50	27pF	C302	168-1042-78	0.1 μ F	R117	033-1021-15	1/16W 1k Ω
C120	045-1801-50	18pF	C303	043-0533-50	0.047 μ F	R131	033-4711-15	1/16W 470 Ω
C121	163-1063-35	16V100 μ F	D201	001-0516-90	MA111	R132	033-2211-15	1/16W 220 Ω
C122	178-1052-78	1 μ F	IC101	051-6376-00	TC94A14FA	R201	117-2201-15	1/10W 22 Ω
C123	046-1032-78	0.01 μ F	IC102	051-3279-90	BA033LBSG	R202	117-2201-15	1/10W 22 Ω
C124	163-1073-05	4V100 μ F	IC201	051-5710-90	TA2157F	R203	033-1041-15	1/16W 100k Ω
C125	168-1042-78	0.1 μ F	IC301	051-6049-08	BA5983FP-E2	R204	033-1041-15	1/16W 100k Ω
C126	168-1042-78	0.1 μ F	J101	074-1228-76	26P	R205	033-1041-15	1/16W 100k Ω
C129	178-1052-78	1 μ F	J201	074-1138-65	15P	R206	033-1041-15	1/16W 100k Ω
C201	163-3363-05	4V33 μ F	J301	074-1138-60	10P	R207	033-1041-15	1/16W 100k Ω
C202	168-1042-78	0.1 μ F	L101	010-2285-57	BLM21B102SPT	R208	033-8231-15	1/16W 82k Ω
C203	178-1052-78	1 μ F	L102	010-2285-57	BLM21B102SPT	R209	033-6811-15	1/16W 680 Ω
C204	163-1073-05	4V100 μ F	L103	010-2285-57	BLM21B102SPT	R210	033-6831-15	1/16W 68k Ω
C205	163-3363-05	4V33 μ F	L104	010-2285-57	BLM21B102SPT	R211	033-1831-15	1/16W 18k Ω
C206	168-1042-78	0.1 μ F	L105	010-2285-57	BLM21B102SPT	R212	033-2721-15	1/16W 2.7k Ω
C207	043-0533-50	0.047 μ F	L401	010-3050-93	10 μ H	R213	033-1011-15	1/16W 100 Ω
C208	046-6822-58	6800pF	Q201	131-1188-50	2SB1188	R214	033-1021-15	1/16W 1k Ω
C209	168-1042-78	0.1 μ F	R102	033-5621-15	1/16W 5.6k Ω	R215	033-1031-15	1/16W 10k Ω
C210	043-0533-50	0.047 μ F	R104	033-4731-15	1/16W 47k Ω	R217	033-1041-15	1/16W 100k Ω
C211	168-1042-78	0.1 μ F	R105	033-1041-15	1/16W 100k Ω	R218	033-2211-15	1/16W 220 Ω
C212	168-1042-78	0.1 μ F	R108	033-1531-15	1/16W 15k Ω	R301	117-6811-15	1/16W 680 Ω
C213	045-5096-50	5pF	R109	033-1031-15	1/16W 10k Ω	R304	033-3921-15	1/16W 3.9k Ω
C214	045-5601-50	56pF	R110	033-1051-15	1/16W 1M Ω	R305	033-3921-15	1/16W 3.9k Ω
C215	043-0533-50	0.047 μ F	R111	033-3321-15	1/16W 3.3k Ω	R306	033-1041-15	1/16W 100k Ω
C216	178-1052-78	1 μ F	R114	033-2211-15	1/16W 220 Ω	R307	033-2211-15	1/16W 220 Ω
C217	045-1011-50	100pF	R115	033-2211-15	1/16W 220 Ω	X102	060-1528-90	16.934M
C301	163-1073-35	16V100 μ F	R116	033-1031-15	1/16W 10k Ω			

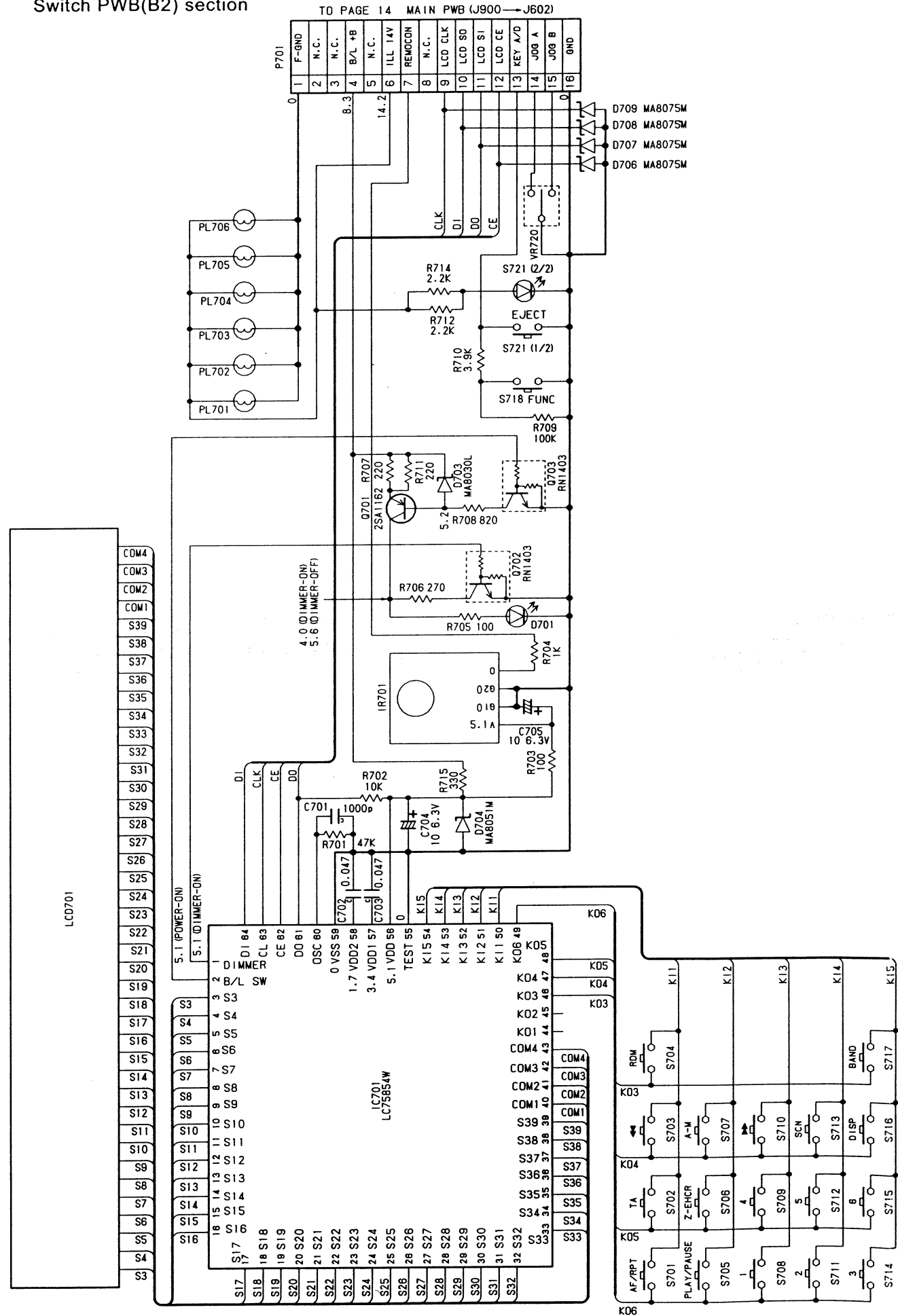
LED PWB(B5) section : CD mechanism

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
D1	001-7058-90	AN1105W-RR	Q1	060-4015-90	PS1192H	S2	013-7413-50	LIMIT
D2	001-7058-90	AN1105W-RR	Q2	060-4015-90	PS1192H			
J1	074-1138-60	10P	S1	013-7414-50	CHUCKING			

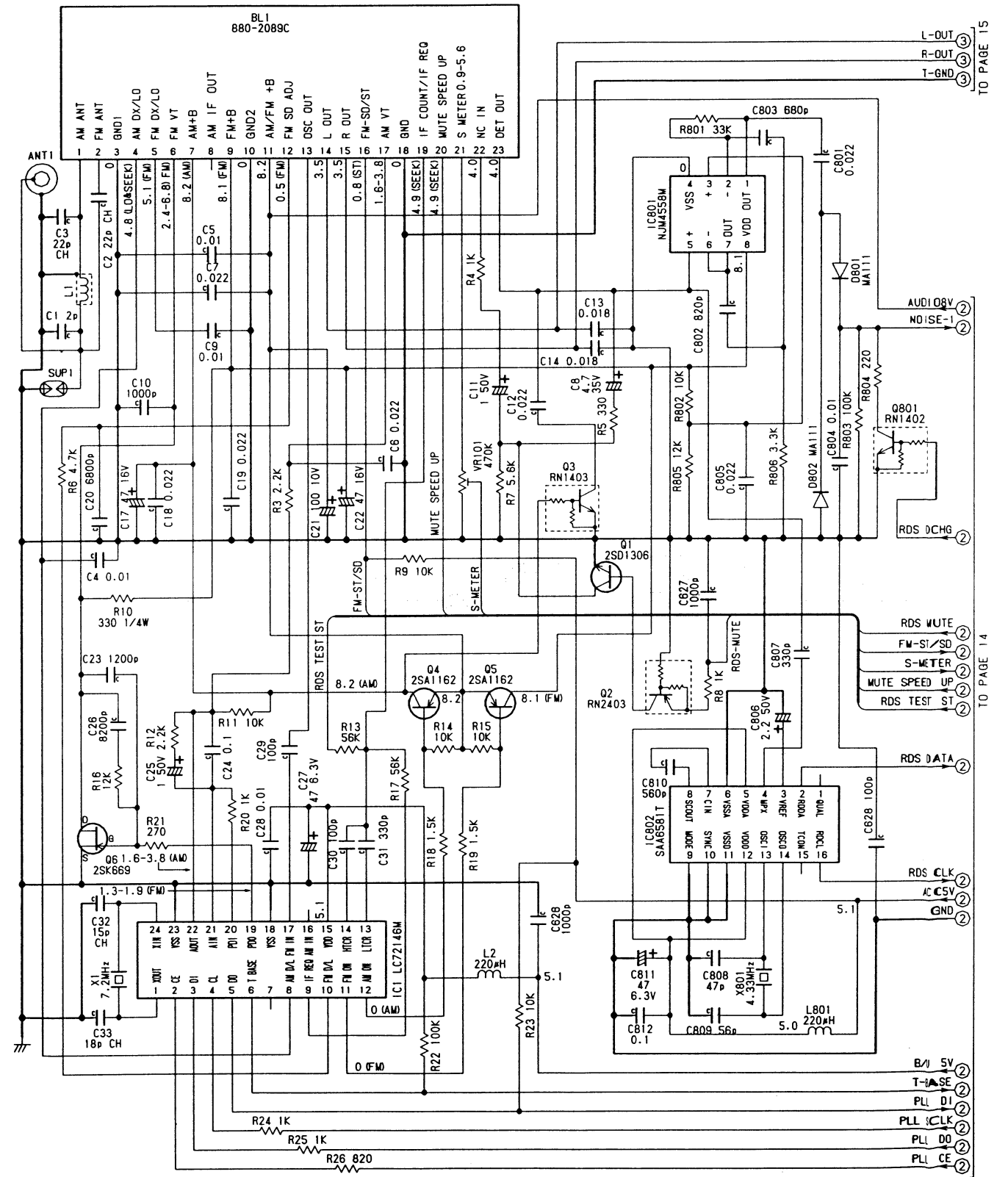


■ CIRCUIT DIAGRAM

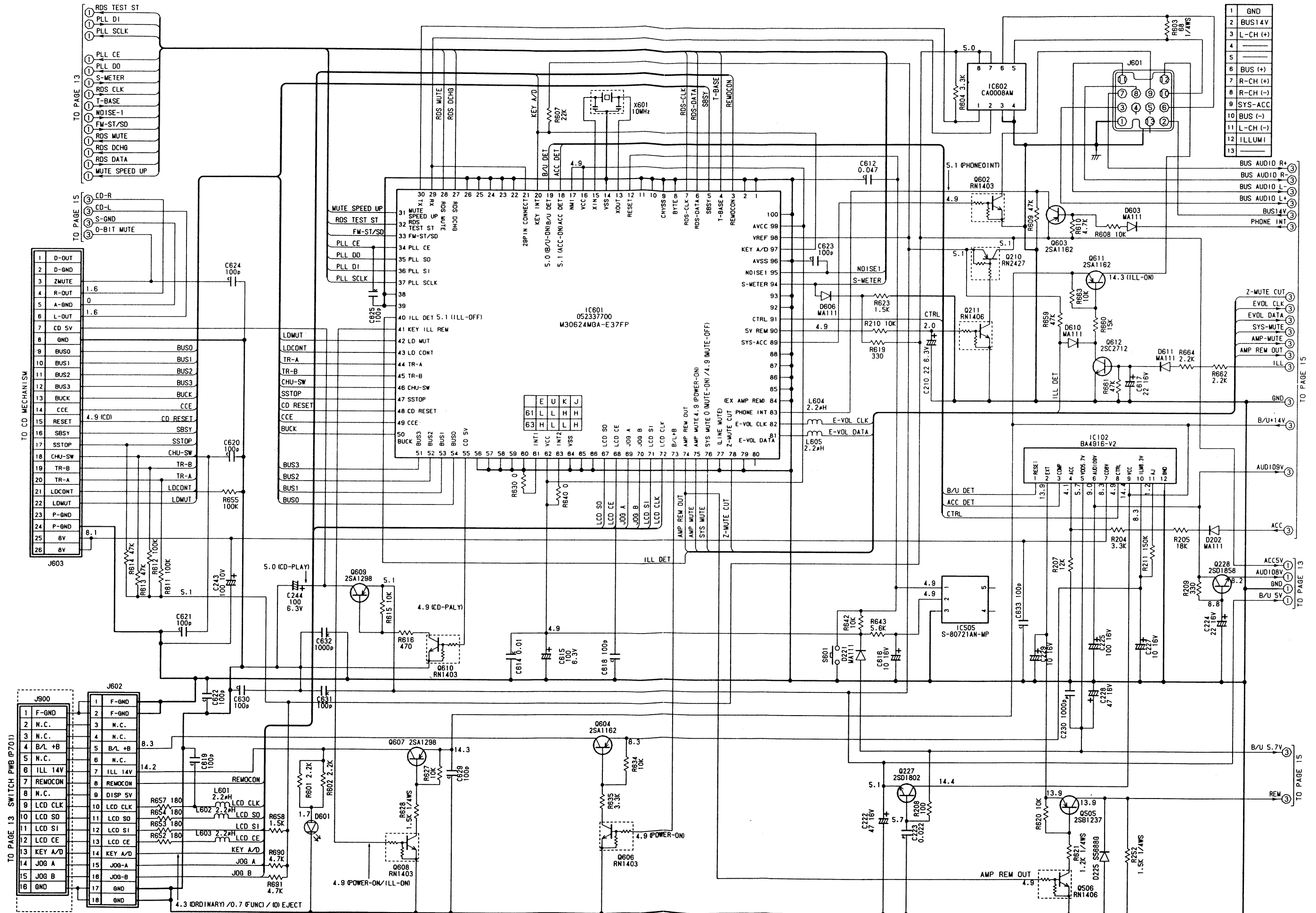
Switch PWB(B2) section



Main PWB(B1) section 1/3



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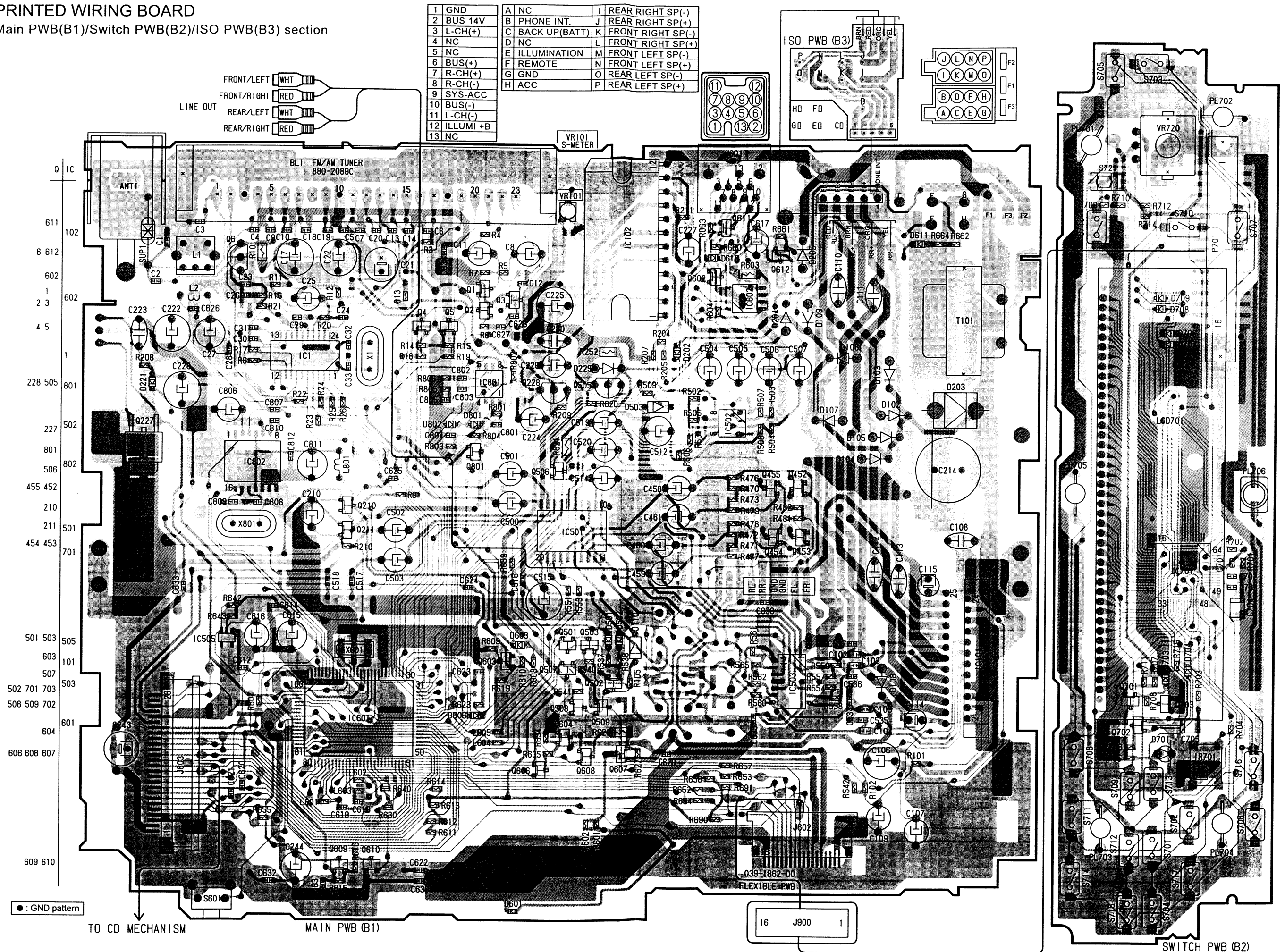


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■ PRINTED WIRING BOARD

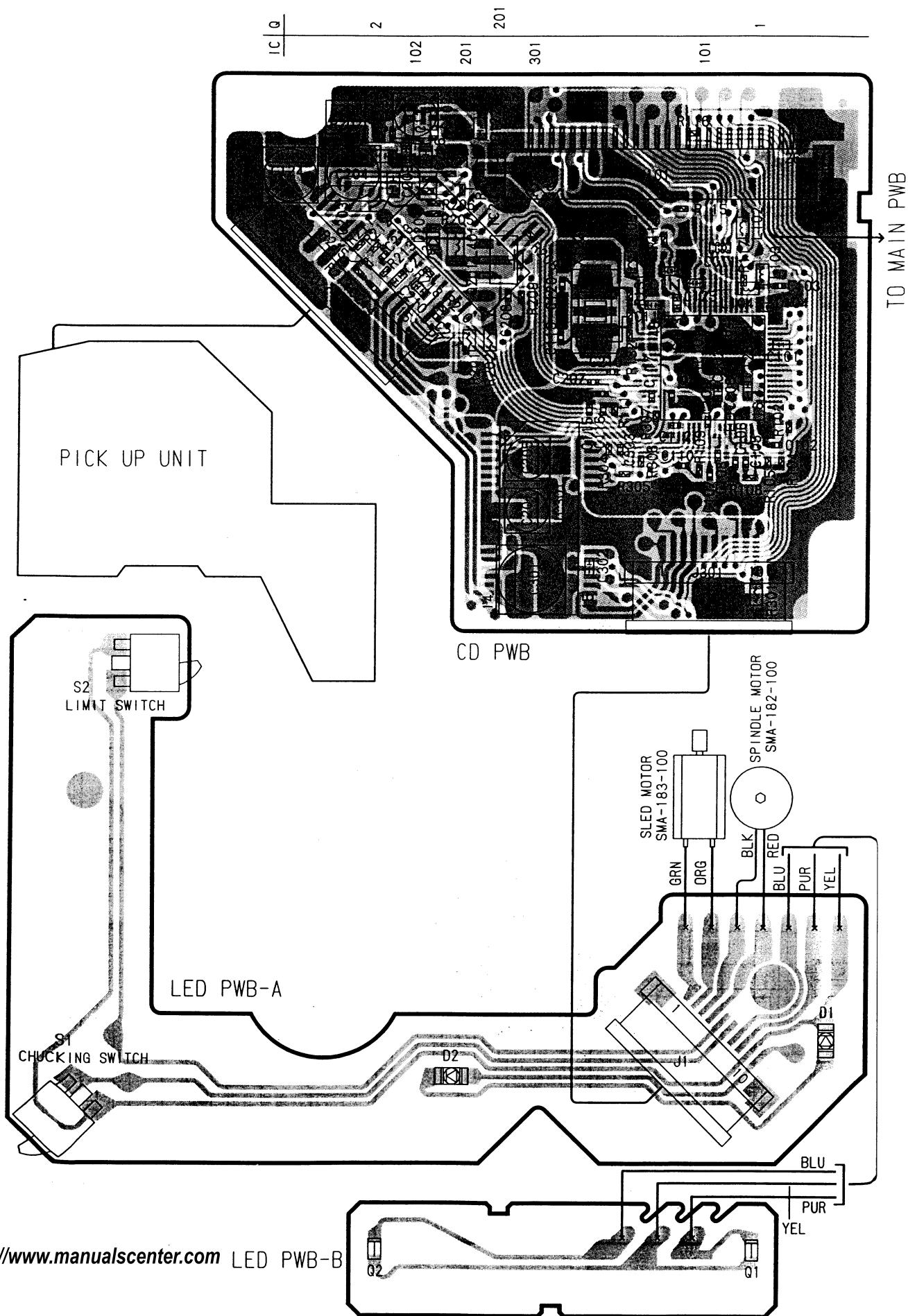
Main PWB(B1)/Switch PWB(B2)/ISO PWB(B3) section



□



■ CIRCUIT DIAGRAM:
CD PWB (B4) / LED PWB(B5) section



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